

Title (en)

Process for preparing layered thin films

Title (de)

Verfahren zur Herstellung von mehrlagigen Dünnschichten

Title (fr)

Procédé pour la préparation de couches minces multiples

Publication

EP 0506582 B1 19970528 (EN)

Application

EP 92400880 A 19920330

Priority

- JP 8962091 A 19910328
- JP 8962191 A 19910328

Abstract (en)

[origin: EP0506582A2] A process for depositing successively a plurality of thin films on a bottom superconductor layer made of oxide superconductor deposited on a substrate in a single chamber successively preferably under one of two conditions: in a first condition, deposition of a first thin film to be deposited directly on the bottom super-conductor layer is effected under such condition that the bottom superconductor layer is heated above the oxygen-trap temperature (T_{trap}) at which oxygen enter into the oxide superconductor but lower than a film forming temperature of the bottom superconductor layer, and in a second condition, the bottom superconductor layer is heated in ultra-high vacuum at a temperature which is lower than said oxygen-trap temperature (T_{trap}) but higher than a temperature which is lower by 100 DEG C than the oxygen-trap temperature (T_{trap} - 100 DEG C) and then the first thin film is deposited thereon. <IMAGE>

IPC 1-7

H01L 39/24

IPC 8 full level

H01L 39/24 (2006.01)

CPC (source: EP US)

H10N 60/0296 (2023.02 - EP US); **H10N 60/0941** (2023.02 - EP US); **Y10S 505/702** (2013.01 - EP); **Y10S 505/731** (2013.01 - EP); **Y10S 505/732** (2013.01 - EP)

Cited by

EP0734323A4; US6562761B1; WO0108232A3; US6436317B1; US7326434B2; US7939126B2; US6893732B1; US6669774B1; US6974501B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0506582 A2 19920930; **EP 0506582 A3 19930127**; **EP 0506582 B1 19970528**; CA 2064428 A1 19920929; DE 69219941 D1 19970703; DE 69219941 T2 19971120; US 5629268 A 19970513

DOCDB simple family (application)

EP 92400880 A 19920330; CA 2064428 A 19920330; DE 69219941 T 19920330; US 45731395 A 19950601